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H02K 7/08**F16C 17/10****G11B 19/20****H02K 29/00**(21) Application number: **11123056**(22) Date of filing: **28.04.99**(71) Applicant: **SANKYO SEIKI MFG CO LTD**

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(54) **SPINDLE MOTOR**

(57) Abstract:

PROBLEM TO BE SOLVED: To raise the junction strength between the fellow parts relatively short in junction length while thinning a motor, by providing the surface part of a junction boundary with an escape part sunken in axial direction, and welding a bearing sleeve and a counter plate in this escape part thereby uniting both.

SOLUTION: After press-fitting or insertion of a rotary shaft 21 and a thrust plate 26 on a level that the deterioration of squareness does not occur, the junction boundary between both is welded from the side of surface. At this time, an escape part 30 sunken in axial direction is made in circular form in advance at the surface part of the junction boundary, and in this escape part, the rotary shaft 21 and the thrust plate 26 are welded. For the form of the escape part 30 at the junction boundary between the rotary shaft 21 and the thrust plate 26, a tapered face 21a is made all around the peripheral fringe on tip side of the rotary shaft 21, while the

inside peripheral face 26a of the center hole of the thrust plate 26 adjoins the tapered face 21a.

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